

DEC 05 1985

DG/85/12/05/0 M1 LINEHAN

- 1 -

Distribution:
WM file: 109
WMEG r/f
NMSS r/f
REBrowning
MJBell
JTGreeves
MNataraja
TJohnson
MTokar
DGupta
JPearring
KChang
JOBunting
LBHigginbotham
R. Johnson

MEMORANDUM FOR: John J. Linehan, Section Leader
Repository Projects Branch
Division of Waste Management
Office of Nuclear Material
Safety and Safeguards

FROM: Mysore S. Nataraja, Section Leader
Rock Mechanics Section
Engineering Branch
Division of Waste Management

SUBJECT: COMMENTS ON SCP SECTION 8.3 EXAMPLES

In the DOE/NRC meeting on SCP Section 8.3 Outline, the DOE provided several examples to seek NRC comments on the needed level of detail that DOE should provide in the SCP Section 8.3. As requested by R. Johnson, WMRP, we have reviewed these examples, and based on this review have prepared the enclosed comments. The draft of these comments was provided to R. Johnson on November 20, 1985.

151
Mysore S. Nataraja, Section Leader
Rock Mechanics Section
Engineering Branch
Division of Waste Management

Enclosure:
As stated

WM Record File

109

WM Project 1

Docket No. _____

PDR ☒

LPDR _____

Distribution:

(Return to WM, 623-SS)

8601130245 851205
PDR WASTE PDR
WM-1

DFC	:WMEG	DG	:WMEG	DG	:	:	:	:	:
NAME	:DGupta/km		:MNataraja		:	:	:	:	:
DATE	:12/5/85		:12/5/85		:	:	:	:	:

TABLE I

Example name: NNWSI Thermal Properties

SectionNot AddressedAdequately AddressedMore Info. reqd.

I.

A.

✓

B.

1.

✓

2.

✓

3.

✓

II.

A.

1.

✓

2.

✓

3.

✓

4.

✓

5.

✓

6.

✓

7.

✓

B.

✓

✓
specifies details
Reg. requirements

III.

A.

HEAT CAPACITY TEST, Thermal Conductivity Tests
and Thermal Expansion Tests

1.

✓

2.

✓ ASTM

3.

✓ ASTM

4.

✓

5.

✓ ASTM

6.

✓ ASTM

7.

✓

✓
(Location of Sn
(QA Level 1)
Need to verify)[Basis for
expected result]

✓

TABLE I

Example name:

Section

Not Addressed

Adequately Addressed

More Info. Nec

III.

A. Canister Scale Heater

1. ✓
2. ✓
3. ✓
4. ✓
5. ✓
6. ✓
7. ✓

III.

A. (Small-scale Heater Experiment)

1. ✓ ✓ Location & Sample
2. ✓ (ii) RA Level
3. ✓ (ii) Test Procedure, docu
4. ✓ reference
5. ✓ further details of equipment.
6. ✓ sufficient details, data reduction + an techniques.
7. ✓

III.

A. (Yucca Mountain Heated Block)

1. ✓
2. ✓
3. ✓
4. ✓
5. ✓
6. ✓
7. ✓

Not addressed

Addressed

More Info
needed

B.

1.

2.

3.

4.

5.

✓

✓

✓

✓

✓

IV.

A.

B.

C.

D.

✓

✓

✓

✓

✓

V.

A.

B.

✓

✓

✓

TABLE I

Example name:

NNWSI Mechanical Properties Investigations

Section

Not Addressed

Adequately Addressed

More Info. Nec

I.

A.

✓

B.

1.

✓

✓

2.

✓

✓

3.

✓

✓

II.

A.

1.

✓

✓

2.

✓

✓

3.

✓

✓

4.

✓

✓

5.

✓

✓

6.

✓

✓

7.

✓

✓

B.

✓

✓

III.

A.

1.

✓

✓

2.

✓

3.

✓

4.

✓

5.

✓

6.

✓

7.

✓

B.

1.

2.

3.

4.

5.

IV.

A.

B.

C.

D.

V.

A.

B.

Ris S
AST

J. Pearning

EXAMPLE COMMENT

II.A.,3-

Rationale for Selected Study

Information as described in this section of Content Requirement for Description of Studies in Chapter 8 of The SCP, has not been provided and should be included in the next draft of the document. This information is needed to adequately review the document in accordance with Reg. Guide 4.17 and 10 CFR60.133 .

EXAMPLE COMMENT WHERE MORE INFORMATION IS NEEDED

I. A.

Purpose and Objective

Information given in this section is insufficient and does not fully comply with the content requirement for descriptions of studies in chapter 8 of the SCP. For example some information is provided on the room closure rates however none is provided on monitoring the roof support system or systems that will be used in the Mine-By Test. This information is an important part of the design and construction of the repository.

TABLE 1

NS Tampons/JR Peaving

Example name:

SRPO% MINE-BY TESTSectionNot Addressed~~Addressed~~ AddressedMore Info. Needed

I.

A.

✓

✓

B.

1.

✓

✓

2.

✓

✓

✓

3.

✓

II.

A.

✓

✓

1.

✓

2.

✓

3.

✓

4.

✓

5.

✓

6.

✓

7.

✓

✓

B.

✓

III.

A.

✓

✓

1.

✓

✓

2.

✓

✓

3.

✓

4.

✓

5.

✓

6.

✓

7.

✓

⊗

More Info. needed

✓

✓

✓

✓

✓

✓

IV.

✓✓

✓

✓

✓



100

V.

✓
✓

✓
✓

TABLE 1

K. Chang
11/19/85

Example name: BWIP, Uniform Corrosion Tests

Section

Not Addressed

Addressed

More Info Needed

Unable to Assess

8.3.4.3.2.2.2

I

A

✓

B

1

✓

2

✓

3

✓

II

A

1

✓

2

✓

3

✓

4

✓

✓

5

✓

✓

6

✓

7

✓

B

✓

III

A

1

✓

✓

2

✓

✓

3

✓

✓

4

✓

5

✓

6

✓

✓

7

✓

✓

NOT Addressed

Addressed

More Info Needed

Unable to Assess

III

B

1

2

3

4

5

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

IV

A

B

C

D

✓

✓

✓

✓

V

A

B

✓

✓

✓

✓